CITY OF

ALEXANDRIA

Virginia

Department of Transportation & Environmental Services

301 KING STREET ROOM 3600 ALEXANDRIA, VA 22314

TEL. 703.746.4408 www.alexandriava.gov

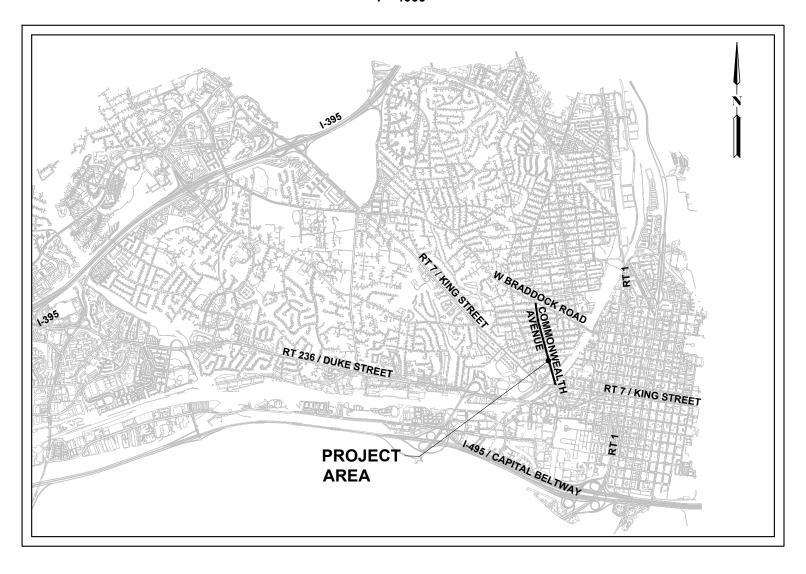
LOCATION MAP

PLANS FOR:

COMMONWEALTH AVENUE: COMPLETE STREETS

FEBRUARY 2021 - 60% SUBMITTAL

INDEX OF SHEETS					
SHEET NUMBER	TITLE				
1	G1-COVER SHEET				
2	G2-GENERAL NOTES AND TYPICAL SECTIONS				
3	G3-PAVEMENT MARKING NOTES AND LEGEND				
4	DC1 PAVEMENT MARKING DETAILS				
5	DC2 PAVEMENT MARKING DETAILS				
6	DC3 SPEED CUSHION DETAIL				
7	DC4 TRAFFIC SEPARATOR DETAILS				
8	DC5 SIGN SCHEDULE				
9	C1-1 PAVEMENT MARKING AND SIGNING PLAN				
10	C1-2 PAVEMENT MARKING AND SIGNING PLAN				
11	C1-3 PAVEMENT MARKING AND SIGNING PLAN				
12	C1-4 PAVEMENT MARKING AND SIGNING PLAN				
13	C1-5 PAVEMENT MARKING AND SIGNING PLAN				
14	C1-6 PAVEMENT MARKING AND SIGNING PLAN				
15	C1-7 PAVEMENT MARKING AND SIGNING PLAN				
16	C1-8 PAVEMENT MARKING AND SIGNING PLAN				
17	C1-9 PAVEMENT MARKING AND SIGNING PLAN				



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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
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LICENSE NO.
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CHK RP
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MD 20910
1900
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COMMONWEALTH AVENUE COMPLETE STREETS CITY OF ALEXANDRIA, VA
 GENERAL
 PROJECT NO.
 50728

 DATE
 02.08.2021

 DRAWING NO.
 G1

1 OF 17

- 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 4. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND FEATURES OUTSIDE THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE CITY ENGINEER ANY OTHER DAMAGE SO CAUSED.

SIGNING AND PAVEMENT MARKINGS

- 5. ALL STRIPING AND SIGN WORK SHALL MEET ALL APPLICABLE VDOT, AND CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS, AND 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
- 6. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 7. ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
- 8. PARKING ZONE STRIPING 4" SOLID WHITE TRANSVERSE PARKING LINES SHALL MATCH PARKING REGULATION SIGNS, WHERE PRESENT. IF NO SIGNS ARE PRESENT, LINES SHALL BE LOCATED ACCORDING TO CITY OF ALEXANDRIA PARKING REGULATIONS, OR AS DIRECTED BY THE CITY ENGINEER.
- 9. DRIVEWAYS NOT ALL DRIVEWAYS HAVE BEEN LOCATED FOR THIS STRIPING PLAN. FIELD VERIFY DRIVEWAY LOCATIONS BEFORE APPLYING STRIPING.
- 10. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
- 11. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT OVERHANG BEYOND THE FACE OF CURB.
- 12. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
- 13. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
- 14. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY FOLIPMENT BY A MINIMUM OF 10 FEFT
- 15. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
- 16. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE CITY ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 17. IF SIGN INSTALLATION IS SHOWN ON A POLE THAT IS NOT OWNED BY THE CITY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.

- 18. ALL SIGN LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC AND MAY NOT REFLECT ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY EACH LOCATION PRIOR TO INSTALLING A SIGN. IF AT ANY POINT THE CONTRACTOR FINDS A CONFLICT, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN. PROPOSED SIGN LOCATIONS CAN BE ADJUSTED AS APPROVED BY THE CITY ENGINEER.
- 19. REPAVING OF CORRIDORS WITHIN THIS PLAN SET ARE ASSUMED TO BE REPAVED TO THE EXTENT OF THE POINT OF CURVATURE OF THE CROSS STREET. IF PROPOSED MARKINGS DO NOT MEET THE LIMITS OF REPAVING, CONTRACTOR TO EXTEND PROPOSED MARKING TO MATCH THE EXISTING MARKINGS TIE-IN POINT.

MAINTENANCE OF TRAFFIC

- 20. VIRGINIA MUTCD, VDOT AND CITY OF ALEXANDRIA STANDARD DETAILS AND PROCEDURES FOR MAINTENANCE OF TRAFFIC SHALL BE USED FOR INSTALLATION OF ALL PROJECT FEATURES.
- 21. ALL EXISTING RESIDENTIAL AND COMMERCIAL DRIVEWAYS AND PUBLIC ALLEY ENTRANCES SHALL REMAIN OPEN AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 22. FOR LOCATIONS WHERE THE WORK WILL BE COMPLETE WITHIN ONE WORKING DAY, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VDOT AND MUTCD REQUIREMENTS FOR SHORT-TERM STATIONARY WORK AND MOBILE WORK.
- 23. TEMPORARY "MOBILE" LANE CLOSURES UTILIZING VEHICLES WITH WARNING LIGHTS AND SIGNS PER MUTCD WILL BE ALLOWED FOR LANE CLOSURES WHERE THE WORK WILL BE COMPLETED WITHIN ONE WORKING DAY. FOR LOCATIONS WHERE THE WORK WILL NOT BE COMPLETE WITHIN ONE WORKING DAY OR OCCUR AT NIGHT, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VDOT AND MUTCD REQUIREMENTS FOR INTERMEDIATE-TERM STATIONARY WORK.
- 24. THE SIDEWALKS AND CROSSWALKS MUST REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 25. TEMPORARY SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES.
- 26. FULL VIEW OF ADVANCE WARNING SIGNS SHALL BE CLEAR OF OBSTRUCTION ON APPROACH TO WORK ZONE.
- 27. THE CONTRACTOR SHALL OBTAIN THE NECESSARY NOISE PERMIT FOR WEEKEND AND NIGHT-TIME WORK
- 28. ALL AFFECTED TRAVEL LANES SHALL MAINTAIN A 10-FOOT MINIMUM WIDTH UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

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GENERAL

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COMMONWEALTH AVENUE COMPLETE STREETS CITY OF ALEXANDRIA, VA

GENERAL NOTES AND
TYPICAL SECTIONS

DRAWING NO. 50728

DRAWING NO.

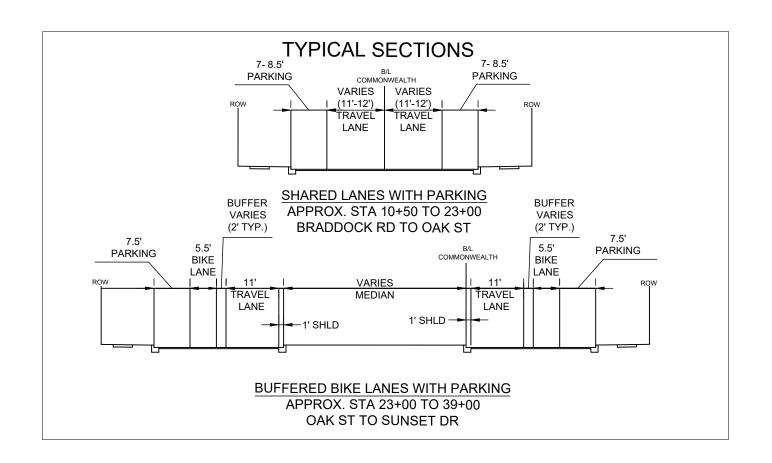
G2

SHEET NO.
2 OF 17

Commonwealth Ave Complete Streets/PRODUCTION/CADD/PLANS\50728_G.dwg

MARKING LEGEND

EXISTING	PROPOSED	
	BE	BEGIN ERADICATION
	EE	END ERADICATION
	ES	ERADICATE SYMBOL
	•	FLEX POST
	•	SIGN AND POST
← ⊷8	← ⊶8	BIKE LANE MARKING
(-~8	«8	HELMETED SHARED LANE MARKING
	4" SWL	4" SOLID WHITE LANE LINE OR INSIDE BICYCLE LANE LINE
	6" SWL	6" SOLID WHITE OUTSIDE BICYCLE LANE LINE
	4"_DWL	4" DASHED WHITE LINE (2' STRIPE, 4' SKIP)
	6" <u>D</u> WL	6" DASHED WHITE LINE (2' STRIPE, 4' SKIP)
	4" SYL	4" SOLID YELLOW LANE LINE
	4" SYCL	4" SOLID YELLOW CENTERLINE
	4" DSYCL	4" DOUBLE SOLID YELLOW CENTERLINE
	6" SWCHL	6" SOLID WHITE CHANNELIZATION LINE
	8" SYCHL	8" SOLID YELLOW CHANNELIZATION LINE AT GORES
	24" SL	24" STOP LINE
	CW	CROSSWALK WITH 6" SWL FOR PARALLEL LINES
夏チ	\$	WHITE PAVEMENT ARROW AND TEXT
		GREEN-COLORED THERMOPLASTIC
TOW ZONE NO STORPHS ANYTINE	TOW ZONE NO strems ANYTIME	SIGN
ιζα		FIRE HYDRANT
BUS STOP	BUS STOP	BUS STOP LOCATION
	A	CONCRETE PAVEMENT
		GRASS
	50000000	DETECTABLE WARNING SURFACE (DWS)
		EPOXY PAINT WITH NATURAL CEMENT TINT
		CONCRETE BUS PAD



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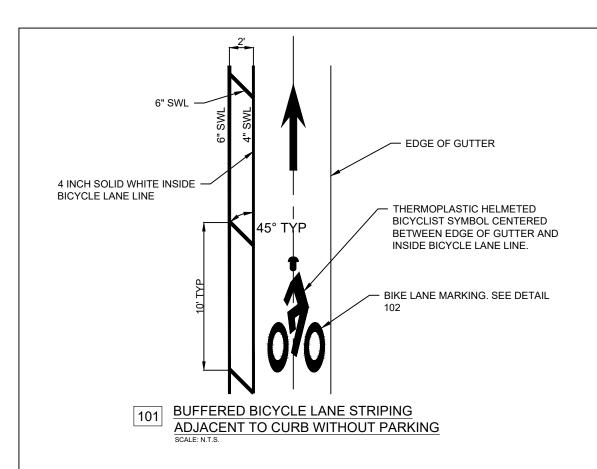


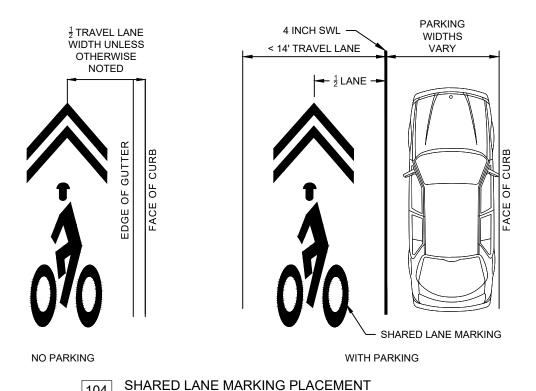
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COMMONWEALTH **AVENUE COMPLETE** STREETS CITY OF ALEXANDRIA, VA

PAVEMENT MARKING PAVEMENT MARKING **NOTES AND LEGEND**

PROJECT NO. 02.08.2021 DRAWING NO. 3 OF 17





PAVEMENT MARKING -ARROW, WHITE THERMOPLASTIC HELMETED BICYCLIST SYMBOL, WHITE **BIKE LANE MARKING**

SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR MORE DETAILS

BICYCLE LANE SYMBOL PLACEMENT NOTES:

- DO NOT PLACE SYMBOLS ON LANE LINES.
- PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
- SEE PLAN SHEETS FOR SYMBOL LOCATIONS.

4" SOLID WHITE TRANSVERSE LINES MATCH TO PARKING REGULATION SIGNS, OR AS FOLLOWS

103

SHARED LANE MARKING

CHEVRON MARKING,

THERMOPLASTIC -

SYMBOL, WHITE

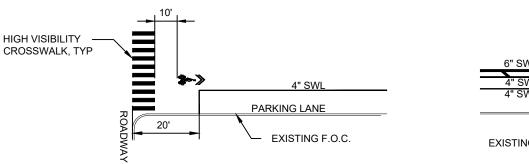
HELMETED BICYCLIST

WHITE

20' MIN. FROM THE CURB LINE OF THE INTERSECTING ROADWAYS

UNLESS OTHERWISE NOTED ON PLANS: 5' MIN. FROM DRIVEWAY EDGES TRAVEL LANE 6" SWL PARKING LANE BIKE LANE MARKING. SEE DETAIL ### EXISTING F.O.C.

BICYCLE LANE MARKING AT DRIVEWAY INTERSECTION



PARKING LANE 20' EXISTING F.O.C.

SHARED LANE MARKING AT ROADWAY INTERSECTION

BICYCLE LANE MARKING AT ROADWAY INTERSECTION

TYPICAL PARKING AND SYMBOL PLACEMENT DETAIL

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DSGN	SD						
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APVD	XX	NO.	DATE	REVISION	BY	APVD	

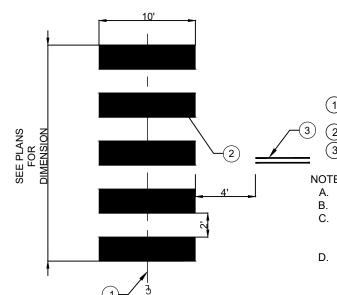
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PAVEMENT MARKING
PAVEMENT MARKING
DETAILS

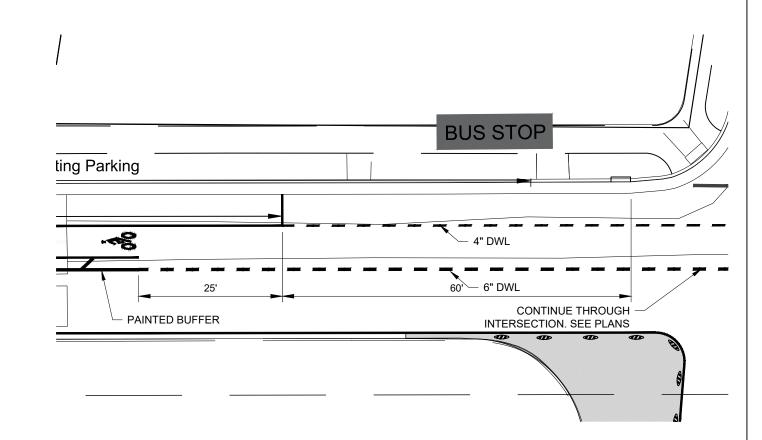
PROJECT NO.
50728
DATE
02.08.2021
DRAWING NO.
DC1
SHEET NO.



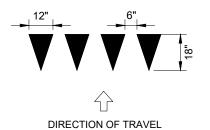
- 1 CENTERLINE OF CROSSWALK TO BE LOCATED AT CENTERLINE OF PEDESTRIAN RAMPS UNLESS OTHERWISE NOTED
- (2) 24" SOLID WHITE THERMOPLASTIC MARKING
- 4" DOUBLE YELLOW MARKING

- A. PEDESTRIAN CROSSWALK EIGHT FEET WIDE, UNLESS OTHERWISE NOTED.
- B. PARALLEL TO CURB LINE OF STREET.
- ALL CURB RAMPS MUST BE LOCATED WITHIN A CROSSWALK, INCLUDING SIDE FLARES OF RAMPS. ONE SIDE FLARE MUST ALIGN WITH BACK EDGE OF CROSSWALK, IF CROSSWALK WIDTH IS GREATER THAN FIFTEEN FEET.
- CROSSWALK MARKINGS SHALL BE INSTALLED WITH PREFORMED HEAT APPLIED THERMOPLASTIC OR LIQUID THERMOPLASTIC.

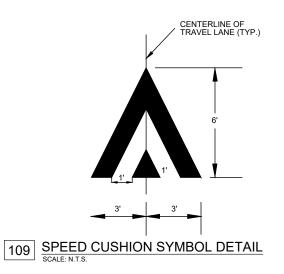
HIGH VISIBILITY CROSSWALK DETAIL SCALE: N.T.S.



BIKE LANE CROSSING AT BUS STOP



TYPICAL YIELD LINE PAVEMENT MARKING SYMBOLS



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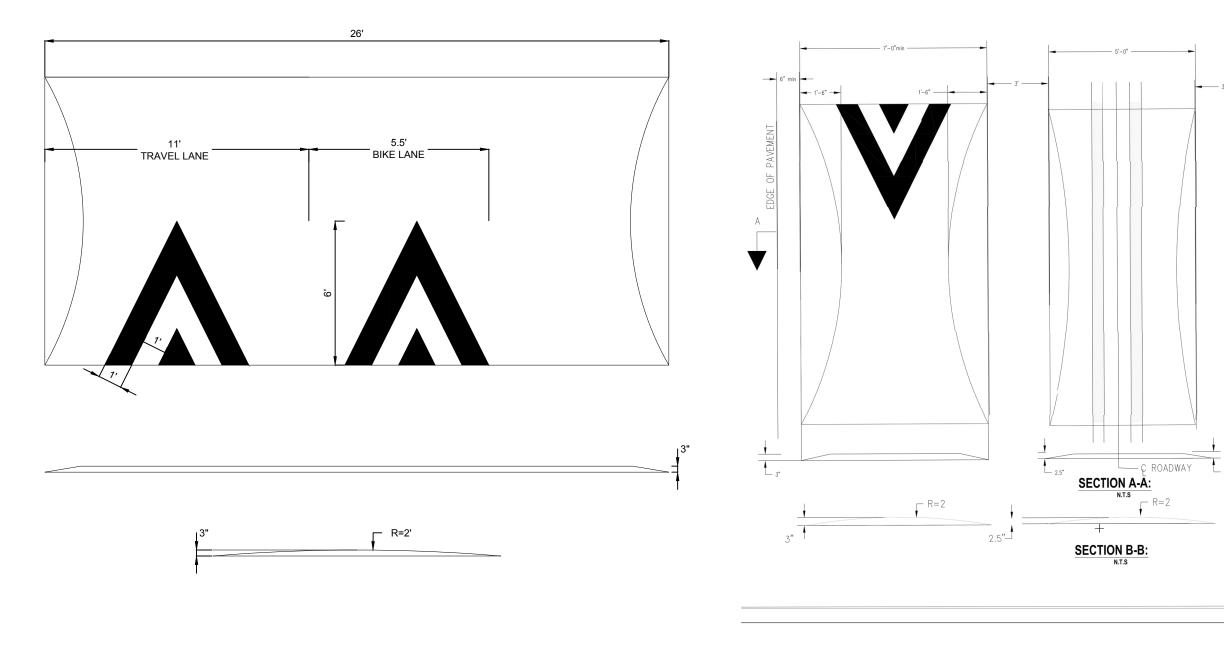
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PAVEMENT MARKING PAVEMENT MARKING **DETAILS**

PROJECT NO.
50728
DATE
02.08.2021
DRAWING NO.
DC2
SHEET NO.
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 $\boxed{\textbf{110}} \ \underline{\frac{\text{SPEED CUSHION DETAIL - DIVIDED SECTIONS}}{\text{SCALE: N.T.S.}}}$

SPEED CUSHION DETAIL - UNDIVIDED SECTIONS

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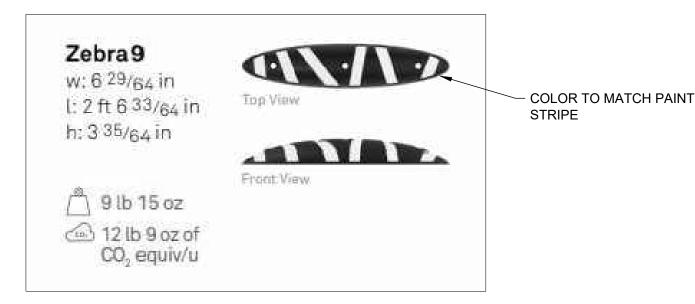


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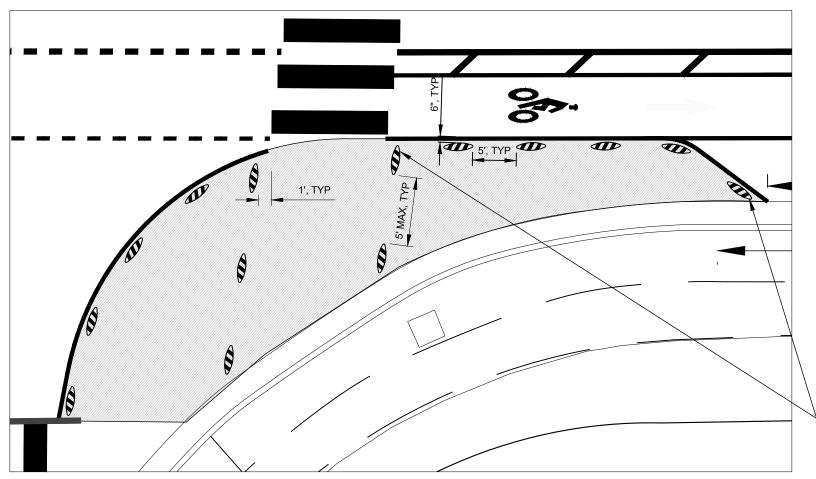
COMMONWEALTH **AVENUE COMPLETE** STREETS CITY OF ALEXANDRIA, VA

CIVIL
SPEED CUSHION DETAIL

PROJECT NO. 02.08.2021 DRAWING NO. 6 OF 17



TRAFFIC SEPARATOR DETAIL



SEPARATORS PLACED AT CORNERS AND ENDS OF PAINTED CURB **EXTENSIONS, SPACED 5'** MAX IN BETWEEN

3.25" SECTION A-A REFLECTIVE TAPE, TYP. → B SECTION B-B HOLES FOR BASE MOUNT - CHANNELIZER SHOWN WITH TYPICAL POST IS RETAINED TO REFLECTIVE TAPE APPLIED BASE WITH 2 PINS

28" WHITE FLEXIBLE CHANNELIZER POST DETAIL

FLEXIBLE CHANNELIZER POST PLACEMENT NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN
- 3. COLOR OF POST AND REFLECTIVE TAPE SHALL MATCH COLOR OF APPLICABLE EDGE LINE.
- 4. SUGGESTED MANUFACTURERS INCLUDE: FILTRONA EXTRUSIONS, SAFE-HIT, CARSONITE COMPOSITES, QWICK KURB, BENT MANUFACTURING, IMPACT RECOVERY SYSTEMS, OR APPROVED EQUAL.

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TRAFFIC SEPARATOR LAYOUT DETAIL



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COMMONWEAL **AVENUE COMPLI** STREETS CITY OF ALEXANDRIA,

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ı, VA	DETAILS

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DRAWING DISCIPLINE	PROJECT NO. 50728	
	DATE 02.08.202	
C4 TRAFFIC SEPARATOR	DRAWING NO. DC4	
DETAILS	SHEET NO. 7 OF 17	

SIGN SCHEDULE							
DWG NO.	SIGN DESIGNATION	SIGN DESCRIPTION	SIZE (INCHES)	SF	QUANTITY	TOTAL SF	NEW SIGN POST (LF)
C1-1	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	1	6.25	12
C1-1	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	2	12.5	24
C1-1	W16-7P	ARROW	24 X 12	2	2	4	
C1-2	W17-1	SPEED HUMP	30 X 30	6.25	2	12.5	24
C1-2	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	2	12.5	24
C1-2	W16-7P	ARROW	24 X 12	2	2	4	
C1-3	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	2	12.5	24
C1-3	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	4	25	48
C1-3	W16-7P	ARROW	24 X 12	2	4	8	
C1-3	W17-1	SPEED HUMP	30 X 30	6.25	2	12.5	24
C1-4	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	1	6.25	12
C1-4	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	2	12.5	24
C1-4	W16-7P	ARROW	24 X 12	2	3	6	
C1-4	W17-1	SPEED HUMP	30 X 30	6.25	2	12.5	24
C1-4	R1-6	PEDESTRIAN PADDLE	12 X 36	3	2	8	
C1-5	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	2	12.5	24
C1-5	W16-7P	ARROW	24 X 12	2	2	4	
C1-5	W17-1	SPEED HUMP	30 X 30	6.25	2	12.5	24
C1-5	R1-2	YIELD	36 X 36	9	2	18	24
C1-6	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	4	25	48
C1-6	W16-7P	ARROW	24 X 12	2	4	8	
C1-6	W17-1	SPEED HUMP	30 X 30	6.25	1	6.25	12
C1-6	R1-2	YIELD	36 X 36	9	2	18	24
C1-6	R6-1R	ONE WAY	36 X 12	3	2	6	24
C1-7	R10-15R MOD	RIGHT TURN YIELD TO PEDS/BIKES	30 X 30	6.25	1	6.25	12
C1-8	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	3	18.75	36
C1-8	W16-7P	ARROW	24 X 12	2	4	8	
C1-8	W17-1	SPEED HUMP	30 X 30	6.25	1	6.25	12
C1-8	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	1	6.25	12
C1-8	R3-17	BIKE LANE	30 X 24	5	2	10	24
C1-8	R3-17bp	ENDS	30 X 12	2.5	1	2.5	
C1-8	W3-1	STOP AHEAD	30 X 30	6.25	1	6.25	12
C1-9	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	1	6.25	12

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COMMONWEALTH **AVENUE COMPLETE** STREETS CITY OF ALEXANDRIA, VA

DRAWING DISCIPLINE	PROJECT NO. 50728
SIGN SCHEDULE	DATE 02.08.2021 DRAWING NO.
	DC4
	SHEET NO. 8 OF 17

